Real World Ocaml Functional Programming For The Masses Yaron Minsky

Real World OCaml: Functional Programming for the MassesReal World OCamlTelling Stories with DataDistributed AlgorithmsLa programmation fonctionnelle - Introduction et applications en Haskell à l'usage de l'étudiant et du développeurInformatique MP2IDistributed AlgorithmsPlay Among BooksNomadic PictComputerworldCulture and TechnologyWho's who in American Law Anil Madhavapeddy Yaron Minsky Rohan Alexander Marios Mavronicolas Julien Dehos Asl　Grimaud Miro Roman Pawe　Tomasz Wojciechowski Andrew Murphie

Real World OCaml: Functional Programming for the Masses Real World OCaml Telling Stories with Data Distributed Algorithms La programmation fonctionnelle - Introduction et applications en Haskell à l'usage de l'étudiant et du développeur Informatique MP2I Distributed Algorithms Play Among Books Nomadic Pict Computerworld Culture and Technology Who's who in American Law *Anil Madhavapeddy Yaron Minsky Rohan Alexander Marios Mavronicolas Julien Dehos Asl　Grimaud Miro Roman Pawe　Tomasz Wojciechowski Andrew Murphie*

this fast moving tutorial introduces you to ocaml an industrial strength programming language designed for expressiveness safety and speed through the book s many examples you ll quickly learn how ocaml stands out as a tool for writing fast succinct and readable systems code using functional programming real world ocaml takes you through the concepts of the language at a brisk pace and then helps you explore the tools and techniques that make ocaml an effective and practical tool you ll also delve deep into the details of the compiler toolchain and ocaml s simple and efficient runtime system this second edition brings the book up to date with almost a decade of improvements in the ocaml language and ecosystem with new chapters covering testing gadts and platform tooling this title is also available as open access on cambridge core thanks to the support of tarides their generous contribution will bring more people to ocaml

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s third section you ll delve deep into the details of the compiler toolchain and ocaml s simple and efficient runtime system learn the foundations of the language such as higher order functions algebraic data types and modules explore advanced features such as functors first class modules and objects leverage core a comprehensive general purpose standard library for ocaml design effective and reusable libraries making the most of ocaml s approach to abstraction and modularity tackle practical programming problems from command line parsing to asynchronous network programming examine profiling and interactive debugging techniques with tools such as gnu gdb

the book equips students with the end to end skills needed to do data science that means gathering cleaning preparing and sharing data then using statistical models to analyse data writing about the results of those models drawing conclusions from them and finally using the cloud to put a model into production all done in a reproducible way at the moment there are a lot of books that teach data science but most of them assume that you already have the data this book fills that gap by detailing how to go about gathering datasets cleaning and preparing them before analysing them there are also a lot of books that teach statistical modelling but few of them teach how to communicate the results of the models and how they help us learn about the world very few data science textbooks cover ethics and most of those that do have a token ethics chapter finally reproducibility is not often emphasised in data science books this book is based around a straight forward workflow conducted in an ethical and reproducible way gather data prepare data analyse data and communicate those findings this book will achieve the goals by working through extensive case studies in terms of gathering and preparing data and integrating ethics throughout it is specifically designed around teaching how to write about the data and models so aspects such as writing are explicitly covered and finally the use of github and the open source statistical language r are built in throughout the book key features extensive code examples ethics integrated throughout reproducibility integrated throughout focus on data gathering messy data and cleaning data extensive formative assessment throughout

this book constitutes the refereed proceedings of the 11th international workshop on distributed algorithms wdag 97 held in saarbrücken germany in september 1997 the volume presents 20 revised full papers selected from 59 submissions also included are three invited papers by leading researchers the papers address a variety of current issues in the area of distributed algorithms and more generally distributed systems such as various particular algorithms randomized computing routing networking load balancing scheduling message passing shared memory systems communication graph algorithms etc

initiation à la programmation fonctionnelle et plus particulièrement au langage haskell cet ouvrage s adresse aux étudiants en informatique développeurs professionnels ou tout amateur de programmation motivé de façon accessible et exploitable il présente les notions de bases de la programmation fonctionnelle et du langage haskell les différentes applications de ce style fonctionnel sa mise en œuvre dans les langages tels que c et javascript les codes sources

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cet ouvrage approfondi d informatique pour la filière mp2i est composé de chapitres de cours et d exercices dont une part prépare aux concours les plus exigeants ainsi que de projets et problèmes d envergure il contient 21 chapitres enseignant les notions fondamentales présentant des algorithmes et détaillant de nombreuses démonstrations de complexité de terminaison et de correction ainsi que des implémentations dans les langages c et ocaml à parts égales 118 exercices interrogeant chapitre par chapitre vos connaissances tous les algorithmes du programme officiel de première année sont abordés l ensemble des sources est disponible en ligne 11 projets problèmes permettant d approfondir l usage et les liens entre les connaissances dispensées au sein des différents chapitres

how does coding change the way we think about architecture this question opens up an important research perspective in this book miro roman and his ai alice ch3n81 develop a playful scenario in which they propose coding as the new literacy of information they convey knowledge in the form of a project model that links the fields of architecture and information through two interwoven narrative strands in an infinite flow of real books focusing on the intersection of information technology and architectural formulation the authors create an evolving intellectual reflection on digital architecture and computer science

abstract mobile agents units of executing computation that can migrate between machines are likely to become an important enabling technology for future distributed systems we study the distributed infrastructures required for location independent communication between migrating agents these infrastructures are problematic the choice or design of an infrastructure must be somewhat application specific any given algorithm will only have satisfactory performance for some range of migration and communication behaviour the algorithms must be matched to the expected properties and robustness demands of applications and the failure characteristic of the communication medium to study this problem we introduce an agent programming language nomadic pict it is designed to allow infrastructure algorithms to be expressed clearly as translations from a high level language to a lower level the levels are based on rigorously defined process calculi which provide sharp levels of abstraction in this dissertation we describe the language and use it to develop a distributed infrastructure for an example application the language and examples have been implemented we conclude with a description of the compiler and runtime system

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we are going virtual in more and more areas of our lives from shopping to education filing systems to love affairs how can we assess the relationship between technology and culture when culture is so imbued with technology this clear concise and readable text aims to offer the student a one stop guide through this complex and slippery terrain introducing a wealth of theoretical perspectives in a lucid and engaging style and covering a range of topical challenging and intriguing examples from cyborgs to digital art it will be an essential text for everyone wanting to make sense of crucial forces of change on contemporary culture

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